SUBJECT INDEX

 $b = \text{Book Review}; \quad c = \text{Correspondence}; \quad e = \text{Editorial}; \quad r = \text{Report}$

Accident analysis, fault tree method Asbestos amosite 142-146 954-955 Adult Respiratory Distress Syndrome in beverages 502 carcinogenicity 589-600 (ARDS), and nickel exposure 921-930 Aerosol measurement 325b chrysotile 59-65, 146-147, 427-646 crocidolite 140-141 Aging, and working capacity 967-968b exposure Air sampling colophony 391-392 assessment 469-475 flour dust 69 in manufacturing workers in Japan mercury 779 metallic dust 121-122 non-occupational 497-502 nickel 922-925 fibre counting PAH 742-743 clearance samples 687-703 methods 470-472 polyamines 259 non-occupational exposure 495-497 resin acids 766 ski-wax fume 932-933 visual reference counts 687-703 tungsten oxide fibres 38-39 heat degradation 137-148 wood dust 290-291 history 397-398 Air sampling instruments lung parenchymal changes 561-567 13mm open-faced cf. 25mm seven-hole pleural plaques 561-567 regulation 457-458 sampler heads 895-902 toxicity 533-538 affect on worker behaviour 827-838 cascade impactor 45-58 in water 502 diffusive Asbestosis, in cement workers 535-537 1990 CEN protocol 161-170 Asthma colophony exposure 389-390 cf. pump-based samplers 827-838 filter cassettes 319-323 nickel exposure 194-195 prevention 972b for gasoline vapour sampling 721-740 Audiometry 219-230, 656 passive samplers cf. charcoal tube 721-740 Bakery workers, flour dust exposure using electrostatic attraction 303-318 performance 307-315, 721-740, 895-902 Benzo(a)pyrene (BaP) exposure, in PERSPEC sampler 23-35 silicon carbide workers 741-752 Biological monitoring Airflow, around exhaust opening 663-686 cadmium exposure 209-218 Aldehydes, in solder fume 757-758 chromium exposure 171-187 Alkaline battery workers, cadmium exposure 209-218 guidelines 966-967b mercury exposure 777-788 Amosite, heat degradation 142-146 nickel exposure 171-187 Amylase, in flour dust 71-72 and occupational hygiene 117-118e Animal studies PAH exposure 247-256 asbestos carcinogenicity 592-598 and risk assessment 969b chrysotile 581-587 mouse 149-160 Bitumen road paving, release of polyamines 257-264

tremolite 514-515, 558-559, 631-632 Bladder cancer, in UK rubber workers 103-104^c, 105-106^c fibre dimensions 459-460, 513-514 British Occupational Hygiene Society heat degradation 146-147 (BOHS), 1993 Conference 99-102, lung function 569-580 189-198, 279-302, 303-318 macrophage responses 601-615 Butylated hydroxytoluene (BHT), control mesothelioma 521, 547-553 morbidity 569-580 of auto-oxidation of limonene 199-207 in friction-products industry Cadmium exposure, alkaline battery workers 209-218 539-546 lung cancer 521, 525-532, 555-560 Cancer bladder 103-104c, 105-106c in mining and milling industry 519-523 chrysotile exposure 519-523 coal tar pitch volatile exposure 107-108b textile workers 525-532 occurrence 442-444 properties 437-441, 459-467 in friction-products industry 539-546 and nickel exposure 191-193 radiological changes 569-580 in rubber industry 103-104c, 105-106c respiratory symptoms 569-580 Car mechanics, mesothelioma 635-638 retention in lung 625-633 toxicity 444-449 Carbon black, loss from filters during UICC 443-448 transit 319-323 uses 453-458 Carbon dioxide, fatal intoxication in wine industry 951-957 workshop 399-426r, 639-642c Clinical waste disposal 233-234b Carcinogenicity Coal tar pitch volatiles, cancer risk 107-108b asbestos 589-600, 617-624 coal tar pitch volatiles 107-108b Cascade impactor 45-58 Coke-oven workers, PAH exposure 247-256 Ceramic kilns, safety 330-331b Cold work, use of IREQ index 705-719 Charcoal tube, cf. passive sampler Colophony exposure 385-396 721-740 Comité Européen de Normalisation (CEN), validation protocol for diffusive Chemicals samplers 161-170 exposure Crocidolite, heat degradation 140-141 and averaging times 815-825 in rubber manufacturing 3-22 modelling 3-22 Dermal exposure fluorescent monitoring 903-919 manufacturing and handling of metallic catalysts 119-135 PAH, control measures 247-256 setting limits 333-336e risk assessment 243-245e Dermatitis China, health and safety 79-88 Chloralkali workers, mercury exposure colophony exposure 390 777-788 nickel exposure 193-194 Chromium exposure, in Finnish industries Diffusive sampler, 1990 CEN validation 173-179 protocol 161-170 Chrysotile Dissolution of chrysotile 643-646c animal studies 581-587 of glass fibres 857-877 bulk sampling 59-65 carcinogenesis 617-624 review 839-855 Drug abuse See: Substance abuse chemistry 434-436 Dust control, hand sanders 279-302 co-carcinogenicity 622 Dust sampling, large particles 373-384 deposition 461-463, 626-628 dissolution 643-646c **Dustiness** index 945-949 exposure assessment 477-487 testing 945-949 biological indicators 503-518 fibre characteristics 459-467

Education

of occupational health nurses 328-329b Vocational Qualifications 99-102

Electromagnetic fields, health effects 329-330b

Electrostatic attraction, and passive sampling 303-318

Environmental health criteria electromagnetic fields 329-330^b methyl ethyl ketone 237-238^b methyl parathion 237^b propachlor 107^b

Eyes, optical radiation exposure 351-359

Fault tree method, accident analysis 954-955

Ferruginous bodies, chrysotile exposure 504-505

Fibres

durability within lung 839-855 safer design 851-852

Fibrosis, nickel exposure 195-196 Filters, carbon black loss during transit 319-323

Finland

chromium exposure 173-179 nickel exposure 176-183

Flour dust exposure, in Swedish bakeries 67-78

Fluorescence microscopy, detection of silica fibres in animal tissue 149-160 Fluorescent monitoring, skin exposure assessment 903-919

Fluorinated hydrocarbon exposure, in ski waxers 931-937

Gasoline vapour, cf. sampling instruments 721-740
Glass fibres, dissolution 857-877

Hand sanders, wood dust control 279-302
Hard-metal industry, tungsten oxide
fibre exposure 37-44
Health and Safety Commission (HSC),
annual report 969-971^b
Hearing conservation programmes, role
of audiometry 219-230
Hearing protection, use in industry
653-655
Heat degradation, asbestos 137-148

Indoor air quality (IAQ), effect of smoking policies on 265-278 Infra-red radiation, thermal effect on eyes 351-359 Ionising radiation, control 326b

Japan, asbestos exposure in manufacturing plants 489-494

Korea, occupational hygiene 95-97

Laboratories

hazards 802-803^b quality assurance 801-802^b

Limonene, auto-oxidation control measures 199-207

Local exhaust ventilation (LEV) airflow around workers 663-686 numerical model 337-349, 663-686

Lung cancer

asbestos cement workers 533-535 asbestos textile workers 525-532 chrysotile exposure 555-560 estimation of risk 555-557

Lung clearance, chrysotile 628-631 Lung deposition, chrysotile 461-463, 626-628

Lung function, and chrysotile-related disease 569-580

Macrophages, response to chrysotile 601-615

Man-made mineral fibres (MMMF) durability 839-855 exposure assessment 959-961^c, 963-964^c

Mercury exposure, chloralkali workers

Mesothelioma

asbestos cement workers 536-537 car mechanics 635-638 chrysotile exposure 521, 547-553

Metallic catalyst dust exposure, in chemical industry 119–135

Methyl ethyl ketone, toxicity 237-238^b Methyl parathion, toxicity 237^b

Methylene dianiline exposure limit 108-109b

toxicity 108-109b

Mine dusts, particle size distribution 45-58

Models

airflow around exhaust opening 663-686 numerical 337-349, 351-359, 663-686 thermal effect of optical radiation on eyes 351-359

New Zealand Occupational Hygiene Society 647

Nickel
exposure
in Finnish industries 176-183
metal arc spraying 921-930
monitoring 196-197
toxicity 189-198
Nickel carbonyl poisoning 194
Nicotine, and IAQ 265-278
Noise at work
attitudes towards 656-659
compliance with Regulations 651-656
Noise induced hearing loss (NIHL),
control 649-662
Non-occupational exposure, asbestos
495-502

Obituary, John McGhie Rogan 239-242 Occupational exposure asbestos 469-475 biomarkers 969b chromium 173-179 chrysotile 477-487 database 171-187 effect of different averaging times 815-825 effect of wearing sampling pumps 827-838 intervals between measurements 361-372 MMMF 959-961°, 963-964° monitoring 231c nickel 176-183, 921-930 PAH 247-256, 741-752 sampling strategies 1-2e Occupational exposure limits colophony 392-393 methylene dianiline 108-109b skin exposure 333-336e

Occupational health
health promotion at work 805-806,
807-809^e, 811-813^e
nursing 328-329^b
in petroleum industry 109^b
self-reported illnesses 326-327^b
in UK 110-111^b

Occupational health and safety chemical laboratories 802-803b in China 79-88 information 111-112b Occupational hygiene

and biological monitoring 117-118^e certification schemes 940-941 in Europe 939-944 in Korea 95-97 in New Zealand 647 quality control 940-941

Occupational safety, ceramic kilns 330-331 b
Offices, IAQ and smoking policies 265-278
Optical radiation, thermal effect on eyes 351-359

Particle size distribution, mine dust Passive sampling cf. charcoal tube 721-740 gasoline vapour 721-740 using electrostatic attraction 303-318 Personal protective equipment (PPE) use by coke-oven workers for PAH control 247-256 See also Hearing protection; Respirators PERSPEC sampler 23-35 Petroleum industry, occupational health 109b Phalaris canariensis, silica fibres 149-160 Phosphorus-containing compounds, toxicity 331b

Polyamine exposure, road paving 257-264
Polycyclic aromatic hydrocarbon exposure biological monitoring 247-256 coke-oven workers 247-256 silicon carbide plants 741-752
Propachlor, toxicity 107b

Quality assurance, analytical laboratories 801-802^b

Radiation protection 235-236b, 326b, Radiology, and chrysotile-related disease 569-580 Regular Interlaboratory Counting Exchanges (RICE) scheme 687-703 Required Clothing Insulation (IREQ) index 705-719 Resin acids, in solder fume 760-762, 765-776 Respirable suspended particulates, and IAQ 265-278 Respirators, penetration of large particles through leaks 879-893 Respiratory sensitisation, control 972b Respiratory symptoms, and chrysotile-related disease 569-580 Risk assessment 243-245e Road paving workers, polyamine exposure 257-264

Rubber industry
bladder cancer, in UK 103-104^c,
105-106^c
chemical exposure model 3-22
Sampling heads, 13mm open-faced cf. 25mm
seven-hole 895-902
Sick building syndrome (SBS), in local
authority workers 789-799
Silica fibres, detection in animal
tissue 149-160
Silicon carbide workers, PAH exposure
741-752
Ski waxing, fluorinated hydrocarbon
exposure 931-937

Smoking and asbestos exposure 557-558 policies, effect on IAQ 265-278 Solder fume

chemical composition 753-763
resin acid exposure 765-776
Substance abuse health promotion

Substance abuse, health promotion at work 234-235^b

Sweden, flour dust exposure in bakeries 67-78

Terpenes, in solder fume 758-759 Thermal comfort, use of IREQ index 705-719

Toxicity review

coal tar pitch volatiles 107-108b

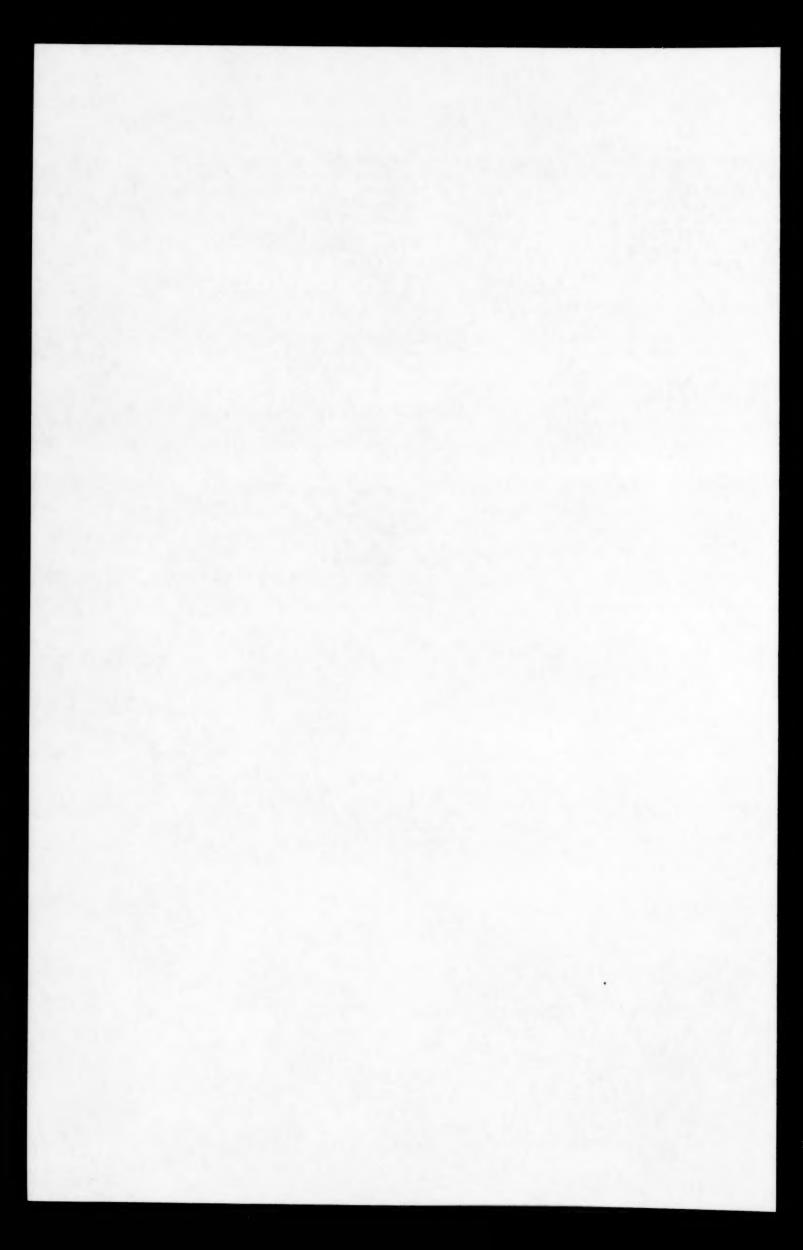
methyl ethyl ketone 237-238b

methyl parathion 237^b
methylene dianiline 108-109^b
phosphorus-containing compounds 331^b
propachlor 107^b
Toxicology 965-966^b
Tremolite, and chrysotile exposure
514-515, 558-559, 631-632
Tungsten halogen lamps, use in UK
236-237^b
Tungsten oxide exposure, hard-metal
industry 37-44

Ultraviolet radiation exposure, tungsten halogen lamps 236-237b Ultraviolet particulate matter, and IAQ 265-278

Waste disposal 233-234^b
Wine industry, CO₂ hazard 951-957
Wood dust exposure, control measures 279-302
Workplace Hazardous Materials
Information System (WHMIS) 89-93
Workshop on the Health Risks Associated with Chrysotile Asbestos 399-426^r, 639-642^c

X-ray diffraction chrysotile content of bulk sample 59-65 heat-degraded asbestos 137-148



AUTHOR INDEX

 $b = \text{Book Review}; \quad c = \text{Correspondence}; \quad e = \text{Editorial}; \quad r = \text{Report}$

Agius, R.M. 805, 965^b Andersson, K. 257 Archibald, R. 241 Arulanantham, P. 789

Baum, J. 649
Becklake, M.R. 569
Berry, G. 539
Blome, H. 1^e
Bodelier-Bade, M.M. 247
Boleij, J.S.M. 3
Bord, B.S. 827
Bowcock, L. 330^b
Bozek, P.R. 721
Bradley, D.R. 23
Brisman, J. 67
Brown, D.P. 525
Brown, P.W. 687
Brown, R.C. 279, 303, 879
Browne, K. 399^e
Burdett, G.J. 945

Calvert, I.A. 219, 319
Campbell, M. 233^b
Case, B.W. 503
Chandrakumar, M. 789
Cherrie, J.W. 827
Christensson, B. 37
Chung, K.Y.K. 945
Churg, A. 625
Clayton, R.F. 326^b
Corn, M. 495
Cowie, H. 827
Crafton, T. 149
Crawford, N.P. 687

Burdorf, A. 67, 939

Davis, J.M.G. 581 Dement, J.M. 525 Dewell, P. 209 Diebold, F. 119 Duggan, M.J. 971^b Dunbar, C.L. 99 Dunnett, S.J. 663 Eisen, E.A. 959^c Ellenbecker, M.J. 959^c Ellingsen, D.G. 777 Ellison, J.McK. 397 Ellwood, P.A. 753, 765 Elmes, P. 547 Erickson, W.A. 265 Evans, H.L. 89 Evans, J. 789

Fenske, R.A. 333^e Foster, R.D. 753, 765 Foulds, I.S. 385

Gardiner, K. 319, 385 Gerber, J.M. 119 Gibbs, G.W. 399^r, 477 Gompertz, D. 117^e Gray, C.N. 385 Groves, J.A. 161, 753, 765 Guillemin, M.P. 951

Hallgren, C. 257 Hameila, M. 931 Hammond, C.M. 647 Harrington, J.M. 811e Hay, D. 79 Heathfield, P. 827 Hecht, G. 119 Hedge, A. 265 Hemingway, M.A. 303 Hery, M. 119 Hesso, A. 931 Higashi, T. 489 Hillerdal, G. 561 Hodson, M.J. 149 Honnert, B. 119 Hopmans, P.M.J. 247 Hori, H. 489 Horisberger, B. 951 Hoshi, H. 489 Hubert, G. 119 Hughes, D. 235b, 236b Hughes, J.M. 555

Illing, P. 802b

Jeyaratnam, M. 137 Jones, A.D. 687 Jongeneelen, F.J. 247 Julian, J.A. 45

Karlberg, A.-T. 199
Kenny, L.C. 23, 373
Kiilunen, M. 171
King, E. 109^b, 110^b, 111^b, 113, 801^b, 966^b, 969^b
Kiviranta, H. 931
Kjuus, H. 777
Koh, D. 385
Krantz, S. 37
Kromhout, H. 3
Kulmala, I. 337
Kumagai, S. 815

Laitinen, J. 931
Langer, A.M. 427
Laszlo, I. 37
Leinster, P. 649
Levin, J.O. 257
Liddell, D. 519
Lidén, G. 373
Liesivuori, J. 931
Lillienberg, L. 67
Lippmann, M. 459, 639c
Lynch, G. 827

McBride, D. 219
McCallum, R.I. 234^b, 326^b, 967^b, 969^b
MacDougall, R. 45
Maclaren, W.M. 687
McLintock, J.S. 242
Magnusson, K. 199
Marley, K.A. 895
Matsunaga, I. 815
Mattson, S.M. 857
Miller, B.G. 687
Morgan, A. 643^c

Author Index

Morgan, L.G. 189 Moseley, H. 329^b Mossman, B.T. 617 Moulut, J.C. 119 Muir, D.C.F. 45

Nam Won Paik 95 Nilsson, U. 199 Niven, R. 972^b Nolan, R.P. 427 Nordhagen, H.P. 777

Oberdörster, G. 601 Okuno, T. 351 Oldershaw, P.J. 231^c, 243^e O'Leary, C. 705 Omae, K. 489 O'Neill, C.H. 149

Paoletti, L. 59
Parsons, K.C. 705
Pengelly, M.I. 161, 753, 765
Petry, Th. 741
Pfaffli, P. 931
Phillips, J.I. 921
Pigg, B.J. 453
Pott, F. 589
Puledda, S. 59
Purdham, J.T. 721

Quinn, M.M. 959c

Rappaport, S.M. 361
Rendall, R.E.G. 921
Renton, K.A. 921
Rickards, A.L. 469
Robertson, A. 827
Rödelsperger, K. 635
Roe, F.J.C. 107^b, 108^b, 237^b, 331^b
Roff, M.W. 303, 903
Rosenthal, F.S. 963^c
Rubin, G. 265

Sadhra, S. 385
Sahle, W. 37
Sakurai, H. 489
Sass-Kortsak, A.M. 721
Satoh, T. 489
Savolainen, H. 931
Schlatter, Ch. 741
Schmid, P. 741
Searl, A. 839
Sebestyen, A. 45
Shaw, D.S. 45
Smith, R.J. 149
Smith, T.J. 959^c
Sorahan, T. 103^c
Swuste, P. 3
Symanski, E. 361

Tanaka, I. 489 Thorpe, A. 279, 303 Tierney, A.M. 879 Tong, D. 649 Tornaeus, J. 931 Tsuda, T. 489 Turnbull, G.B. 161, 753

Usher, V. 189

Valic, F. 399^r van Blaaderen, A. 149 van Hemmen, J.J. 333^e van Tongeren, M.J.A. 319 VanRooij, J.G.M. 247 Vaughan, N.P. 879 Verma, D.K. 45 Veys, C.A. 105^c Vincent, J.H. 325^b

Wagg, R.M. 753, 765 Wake, D. 303 Wegman, D.H. 959^c Wei, W. 79 Weill, H. 533 West, N.G. 137 Whitaker, S. 328^b Whitehead, C. 649 Woitowitz, H.-J. 635 Wynne, R. 807^e

